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**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
WATER AND SEWER DEPARTMENT
DESIGN-BUILD SERVICES FOR INSTALLATION OF A 48-INCH DIAMETER WATER MAIN
DOWNTOWN LOOP CLOSURE
ISD PROJECT NO. DB15-WASD-03**

The County Mayor, Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1, 2-8.2.12 and 2-10.4 of the Miami-Dade County Code, Administrative Order 3-39 and Ordinance 14-77, announces that the Miami-Dade Water and Sewer Department (WASD) will require design-build services from one (1) qualified Design-Builder.

The Design-Builder shall provide, but is not limited to engineering and design, survey, technical specifications, permitting and inspection to support the construction, installation, testing and commissioning activities associated with the construction of a new 48-inch and 36-inch water mains. The Design-Builder should also comply with all other required construction methods for this work, including those to minimize noise, dust and other impacts to surrounding residential neighborhoods. The design and construction services rendered by the Design-Builder shall result in a complete, functional and operable piping project with a standard design life.

The Project includes the following main elements:

- Furnish and install approximately four thousand, seven hundred and eighty (4,780) linear feet of 48-inch diameter and two thousand, three hundred and seventy (2,370) linear feet of 36-inch pre-stressed concrete cylinder pipe for water service. Pipe material shall be in accordance with the American Water Works Association Standard C304;
- Furnish and install all ancillary piping, tie-in connections and piping, required to facilitate successful construction and commissioning of the new 36-inch and 48-inch water main without any interruption of service to existing Water and Sewer Department customers;
- Furnish and install a 48-inch diameter water main including a casing pipe under active railroads using micro-tunnel or other trenchless construction installation technique;
- Furnish and install a 36-inch diameter water main under Biscayne Boulevard using micro-tunnel or other trenchless construction installation technique;
- Provide launching and receiving pits for the micro-tunnel installation;
- Connect to the existing 48-inch water main just south of N.W. 17 Street and N.W. 1 Place;
- Connect to the existing 36-inch water main at N.W. 6 Street and N.W. 1 Court;
- Provide all required valves and piping to facilitate connection of the existing water mains to the new water main;
- Provide air release valve assemblies at all high points on the new water main;
- Relocate existing utilities in conflict with the alignment of the proposed water main, as required by the Engineer;
- Remove, transport, salvage and/or legally dispose of construction and demolition materials including asphalt pavement, concrete pavement, miscellaneous concrete, unsuitable backfill material, pipe, valves and sod;
- Sheeting and shoring ordered left in place by the Engineer;
- Furnish and place suitable backfill for pipe bedding and backfill, as required by the Engineer;
- Construct and restore pedestrian curb ramps and detectable warning surfaces, temporary and permanent replacement or relocation of any utilities, pavement, sidewalk, curb and gutter, valley gutter,

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trees, landscaping, sod, pavement markings and/or driveway damaged during construction to a condition equal to or better than at the start of construction;

- Furnish all materials, equipment, supplies and labor necessary for cleaning, testing, commissioning and placing the new water mains into service;
- Remove existing 30-inch water main on N.W. 6 Street from N.W. 1 Avenue to N.W. 1 Court;
- Design, permit and maintain all required vehicle and pedestrian traffic control measures; and
- Provide all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

The scope of services shall include all professional services, all labor, supervision, quality control, project controls, safety programs, materials, tools, equipment, services, methods and procedures necessary for the Design-Builder to fulfill all duties and obligations imposed by the Contract Documents.

The Design-Builder must complete the Work within the durations specified below, which exclude the warranty administration period:

- Substantial Completion on or before seven hundred and thirty (730) calendar days after the date of Notice to Proceed, which requires placing into service all new water mains and connections within the public right-of-way and shall include all work associated with surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services for the complete and fully operational installation of the new 48-inch and 36-inch diameter water main and reopening all roads and sidewalks to traffic.
- Final Completion and Project Closeout on or before eight hundred and twenty (820) calendar days after the date of Notice to Proceed; including obtaining acceptance by all applicable regulatory agencies, such as WASD, of all Work and Services under the Contract, to include all remaining site restorations, record documents and all other remaining incomplete or unacceptable work items identified at or subsequent to Substantial Completion.

The firms providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

One (1) Design-Builder will be retained under (1) non-exclusive Design-Build Contract for an estimated cost of thirteen million, eight hundred and twelve thousand, and five hundred and fifty dollars (\$13,812,550), inclusive of contingencies.

A/E TECHNICAL CERTIFICATION REQUIREMENTS:

6.01 WATER AND SANITARY SEWER SYSTEMS – WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS (LEAD A/E)

16.00 GENERAL CIVIL ENGINEERING (LEAD A/E)

3.02A HIGHWAY SYSTEMS – TUNNEL DESIGN

3.04 HIGHWAY SYSTEMS – TRAFFIC ENGINEERING STUDIES

9.02 SOILS, FOUNDATIONS AND MATERIALS TESTING – GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES

9.03 SOILS, FOUNDATIONS AND MATERIALS TESTING – CONCRETE AND ASPHALT TESTING SERVICES

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- 9.04 SOILS, FOUNDATIONS AND MATERIALS TESTING – NON-DESTRUCTIVE TESTING AND INSPECTIONS
- 10.05 ENVIRONMENTAL ENGINEERING – CONTAMINATION ASSESSMENT AND MONITORING
- 11.00 GENERAL STRUCTURAL ENGINEERING
- 12.00 GENERAL MECHANICAL ENGINEERING
- 15.01 SURVEYING AND MAPPING – LAND SURVEYING
- 15.03 SURVEYING AND MAPPING – UNDERGROUND UTILITY LOCATION
- 17.00 ENGINEERING CONSTRUCTION MANAGEMENT

EXPERIENCE AND QUALIFICATIONS:

Proposed Design-Builder shall demonstrate its project team experience by presenting the qualifications and capabilities of each Design-Build Team member firm, for projects completed within the last ten (10) years from the date of this solicitation, including projects that may be at least fifty percent (50%) complete prior to the required submittal date of this Request for Design-Build Services Step one (1) solicitation, that demonstrate related minimum project experience as indicated below:

1. Lead Constructors:
 - a. The Lead Construction firm performing the open cut installation work must have successfully constructed at least one (1) pressure pipeline project of similar size and complexity in an urban environment and a minimum thirty-six (36) inch nominal diameter pipe.
 - b. The Lead Construction firm performing micro-tunnel installation of the water pipe must have successfully constructed at least one (1) project utilizing micro-tunnel technique (minimum of thirty-six (36) inch pipe). To qualify, the installation must have been a minimum of thirty-six (36) inch internal diameter in ground conditions similar to those expected, such as high ground water level conditions.
 - c. The Lead Construction firm performing the shaft construction shall have successfully constructed at least one (1) shaft that was at least twenty-five (25) feet below ground surface. The shaft must have been extended below groundwater and required means of controlling inflow and bottom heave of the shaft.
 - d. Design-Builder must submit evidence of the Lead Constructors and Pipe Installation Crews' past performance completing projects of similar size and complexity on schedule and to the satisfaction of the facility owner.
2. Lead Designers:
 - a. The Lead Designer firm performing the design of the water main must have designed at least one (1) pressure pipeline project in an urban environment consisting of a minimum thirty-six (36) inch nominal pipe diameter.
 - b. The Lead Designer firm who will design the micro-tunnel installation of the pipe must have designed at least one (1) micro-tunnel project consisting of a minimum of thirty-six (36) inch diameter pipe installed by micro-tunnel. The referenced project(s) shall be a minimum of thirty-six (36) inch diameter water pipe or larger. The referenced project shall have been designed for construction in ground conditions similar to those expected to be encountered on this project
 - c. The Lead Designer firm or their Subconsultant(s) performing design for the shaft(s) shall have designed one (1) shaft project to support a micro-tunnel construction operation.

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Depth of the shaft for the referenced project(s) shall have been at least twenty-five (25) feet below ground surface.

3. Industry Experience of Design-Build Team Key Personnel:
The qualifications and industry experience referenced in this section must be met by qualified individual(s) of the Design-Build Team and its Subconsultants. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a capacity that is equivalent to or exceeds the stated minimum requirement. The determination of the individual(s) qualifications and compliance with the experience and qualifications shall be at the sole discretion of the County and the Competitive Selection Committee (CSC). The CSC may negatively evaluate proposals from firms they determine have failed to meet the required experience and qualification(s).
 - a. Industry experience for each of the following Key Personnel shall be clearly identified:
 - Project Manager – Design-Builder
 - Design Manager – Lead Designer
 - Construction Manager – Lead Constructor
 - Superintendent – Micro tunnel Constructor
 - Superintendent – Shaft Constructor
 - Superintendent – Pipeline Constructor
 - Design Engineer – Lead Pipeline Designer
 - Design Engineer – Lead Micro-tunnel Designer
 - Lead Structural Engineer
 - Lead Geotechnical Engineer
 - Permitting/Compliance Manager
 - Design-Builder Quality Assurance/Quality Control Manager
 - Design-Builder Safety Manager
 - b. Key Personnel must demonstrate experience with the type of work being performed.
 - Proposers shall identify, in their Statement of Qualifications those State of Florida registered Professional Engineers who will sign and seal construction plans and specifications.
 - Key Personnel resumes shall indicate the individual's current firm association, their professional qualifications, a client reference with contact information and their role and duration on each project for which they are being credited the related experience.
4. Additional Preferred Project Experience:
 - a. Experience in a significant role on a Design-Build project, especially in a similar role as proposed for this Project.
 - b. Superior references with regard to meeting cost, schedule and quality objectives on previous projects and maintaining a positive client relationship.
5. Design-Builder Safety Record - Past Performance:
 - a. Experience Modification Rate (EMR) for the Design-Builder for the pipeline work and the micro-tunnel contractor is recommended to be below 1.10 for each firm.
Design-Builders shall provide EMR data for the previous three (3) full calendar years (2013, 2014 and 2015) on a firm-wide basis shall be documented by a signed letter with

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contact information from the firm, insurance carrier or the insurance carrier's agency representative. Higher qualification scores shall be provided by the CSC for a Design-Builder demonstrating an average EMR lower than other competing Design-Builder firms. Design-Builder shall also provide their Occupational Safety and Health Administration (OSHA) forms 300 and 300A for the last three (3) full calendar years (2013, 2014 and 2015) indicating OSHA submitted accident data for evaluation by the CSC as to their frequency.

SMALL BUSINESS CONTRACT MEASURES:

SBE – Construction:	14.00% Goal
Community Work Force Program:	10.00% Goal
SBE – A/E:	26.00% Goal
SBE – G&S:	4.00% Goal